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Inventor(s): LE MAT ARMAND;; LIMOUSIN LAURENT;; PEUDPIECE JEAN BERNARD

Applicant(s): GRANDE PAROISSE SA (FR)

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**Abstract**

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The invention concerns a device for mixing and dissolving in a liquid (L) solid prills or particles (G) of a substance soluble in said liquid but having a density lower than that of the liquid, and in particular for preparing a sulpho-ureic reagent corroding natural phosphates to produce phosphonitrate fertilisers. The device comprises a vat (2) containing first stirring means (A1) for driving the solid prills towards the vat (2) lower part, and second stirring means (A2) for generating in the reaction mixture a movement for dissolving the prills, in particular a shearing motion.

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